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## WOODFORD COUNTY

### (Woodford County Water Service Area Map)

- Estimated 1999 population of 22,700--93% on public water
- Estimated 2020 population of 27,000--95% on public water
- 175 miles of water lines, with plans for 48 additional miles
- Estimated funding needs for public water 2000-2005--\$1,990,000
- Estimated funding needs for public water 2006-2020--\$7,004,000

Woodford County had an estimated population of 22,715 (9,082 households) in 1999 with a projected population of 26,989 (11,651 households) in 2020. Public water is provided to about 93 percent of the county's residents. In areas of the county not served by public water, about half of the households rely on private domestic wells and half rely on other sources. About 230 customers will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

| COUNTY/System   |       | New Customers |                | Rehab     | Source    | Treatment | Tanks/<br>Pumps | Total     |
|-----------------|-------|---------------|----------------|-----------|-----------|-----------|-----------------|-----------|
|                 | Miles | Number        | Cost in \$1000 | In \$1000 | in \$1000 | in \$1000 | in \$1000       | in \$1000 |
| WOODFORD        |       |               |                |           |           |           |                 |           |
| Versailles      |       |               |                | 360       |           |           | 900             | 1,260     |
| Midway          |       |               |                | 140       |           |           |                 | 140       |
| S. Woodford W/D | 6.0   | 35            | 260            |           |           |           |                 | 260       |
| Frankfort       |       |               |                | 330       |           |           |                 | 330       |
| TOTAL           | 6.0   | 35            | 260            | 830       |           |           | 900             | 1,990     |

#### *Estimated Costs - Proposed Projects, 2006-2020*

| COUNTY/System          |       | New Customers |                | Rehab     | Source    | Treatment | Tanks/<br>Pumps | Total     |
|------------------------|-------|---------------|----------------|-----------|-----------|-----------|-----------------|-----------|
|                        | Miles | Number        | Cost in \$1000 | in \$1000 | in \$1000 | in \$1000 | in \$1000       | in \$1000 |
| Woodford               |       |               |                |           |           |           |                 | -         |
| Versailles             | 7     | 39            | 500            | 1,000     |           | 3,800     |                 | 5,300     |
| Midway                 | 7.5   | 78            | 360            |           |           |           | 275             | 635       |
| S. Woodford W/D        | 7     | 15            | 291            |           |           |           |                 | 291       |
| Frankfort              | 19    | 46            | 738            |           |           |           |                 | 738       |
| N .E. Woodford Co. W/D | 1     | 15            | 40             |           |           |           |                 | 40        |
| Total                  | 41.5  | 193           | 1,929          | 1,000     |           | 3,800     | 275             | 7,004     |

### PUBLIC WATER SYSTEMS

Woodford County has 4 community water systems: 2 municipal, Midway Municipal Water Works and Versailles Water System; and 2 water districts, Northeast Woodford County Water District and South Woodford County Water District. Parts of the county are also

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# WATER SERVICE AREAS

## WOODFORD COUNTY

### Kentucky

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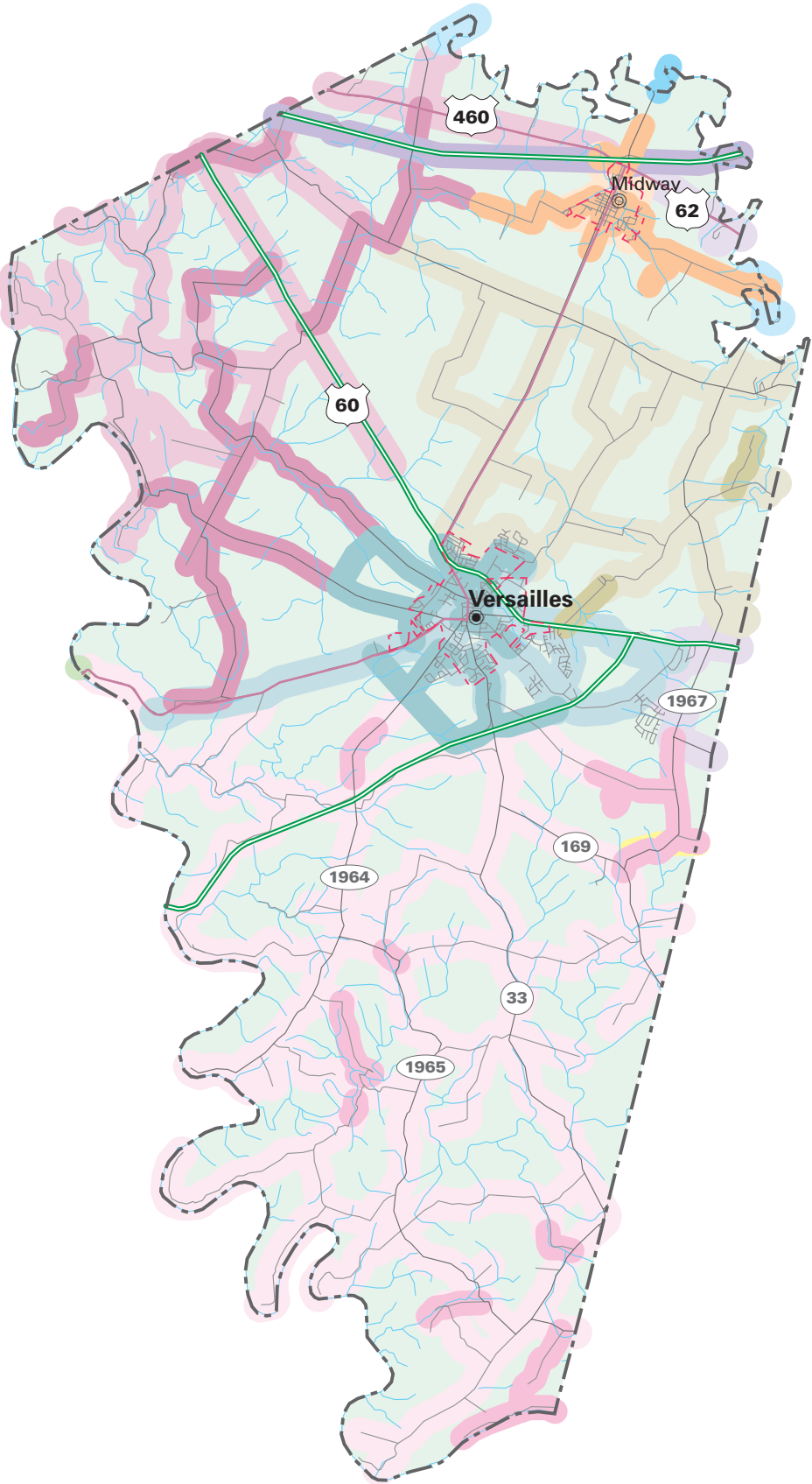
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LIMITATION OF LIABILITY: The Water Resource Development Commission has no reason to believe that there are any inaccuracies or defects in information incorporated in this work and make no representations of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor any such warranties to be implied, with respect to the information or data furnished herein.



#### WATER SERVICE STATUS BY OWNER

| EXISTING SERVICE AREA | PROPOSED SERVICE AREA |  |
|-----------------------|-----------------------|--|
|                       |                       | VERSAILLES MUNICIPAL WATER               |
|                       |                       | SOUTH WOODFORD WATER DISTRICT            |
|                       |                       | NORTHEAST WOODFORD COUNTY WATER DISTRICT |
|                       |                       | MIDWAY MUNICIPAL WATER                   |
|                       |                       | LAWRENCEBURG MUNICIPAL WATER             |
|                       |                       | KENTUCKY-AMERICAN WATER COMPANY          |
|                       |                       | JESSAMINE-SOUTH ELKHORN WATER DISTRICT   |
|                       |                       | GEORGETOWN MUNICIPAL WATER               |
|                       |                       | FRANKFORT ELECTRIC & WATER PLANT BOARD   |

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served by the Frankfort Electric and Water Plant Board, the Kentucky-American Water Company, and Georgetown Municipal Water.

**MIDWAY MUNICIPAL WATER WORKS**

PWSID: ..... 1200283  
System Type:..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 75,000.00  
Total Service Connections: ..... 577.00  
Number of Employees:..... 0.00  
Treatment Operator Class: .....2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... Not available  
O/M costs 1997:..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997:..... Not available  
Total Water Produced 1997 (gallons):..... Not available  
Water Sold 1997 (gallons):..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

**NORTHEAST WOODFORD COUNTY WATER DISTRICT**

PWSID: ..... 1200310  
System Type:..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 100,000.00  
Total Service Connections: ..... 822.00  
Number of Employees:..... 0.00  
Treatment Operator Class: .....2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... 3.09  
O/M costs 1997:..... 240,619.00  
O/M costs per Service Connection: ..... 292.72  
Net Revenue 1997:..... 62,612.00  
Total Water Produced 1997 (gallons):..... 0.00  
Water Sold 1997 (gallons):..... 109,184.00  
Unaccounted-for Water 1997 (%): ..... 8.43

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### **SOUTH WOODFORD COUNTY WATER DISTRICT**

PWSID: ..... 1200411  
System Type: ..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 200,000.00  
Total Service Connections: ..... 1,045.00  
Number of Employees: ..... 2.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... 5.20  
O/M costs 1997: ..... 423,656.00  
O/M costs per Service Connection: ..... 300.47  
Net Revenue 1997: ..... 11,965.00  
Total Water Produced 1997 (gallons): ..... 0.00  
Water Sold 1997 (gallons): ..... 91,851,000.00  
Unaccounted-for Water 1997 (%): ..... 37.97

### **VERSAILLES MUNICIPAL WATER SYSTEM**

PWSID: ..... 1200439  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... KENTUCKY RIVER POOL 5  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 4.00  
Percent Daily Average Production: ..... 74.00  
Total Tank Storage Capacity (gallons): ..... 300,000.00  
Total Service Connections: ..... 4,825.00  
Number of Employees: ..... 10.00  
Treatment Operator Class: ..... 3D  
Distribution Operator Class: ..... 4A  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

### **PRIVATE DOMESTIC SYSTEMS**

About 1,500 residents of Woodford County rely on private domestic water supplies: about 750 on wells and 750 on other sources.

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In the Kentucky River, South Fork of Elkhorn Creeks, Clear Creek and Glenns Creek and their major tributaries, most drilled wells in the valleys will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the smaller creek valleys throughout the county and the uplands of the far eastern part of the county will produce enough water for a domestic supply except during dry weather. In the upland area of western and far southern Woodford County, which encompasses 40% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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